

5 **Abstract**

Method for controlling the temperature of feed air injected into the cabin zone of a passenger aircraft

10 With a method for controlling the temperature of feed air which is injected into the cabin zone of a passenger aircraft, the cabin of which is sub-divided into several cabin zones supplied respectively with specially temperature-controlled feed air, the temperature of the injected feed air is controlled for each cabin zone, dependent upon the deviation of an injection temperature actual value for the feed air injected
15 into the cabin zone in question, measured by sensors, in relation to an injection temperature optimum value. If there is no, or at least no usable reading of the ambient temperature of this cabin zone for a cabin zone, an optimum value for the injection temperature of this cabin zone can be established in accordance with a variation, whereby it is determined upon the basis of the injection temperature
20 optimum values and/or the injection temperature actual values of other cabin zones, whereby the measurement by sensors of the cabin temperature works reliably. In accordance with another variation, the injection temperature optimum value of a cabin zone can be established without measuring ambient temperature by sensors or without reliably measuring ambient temperature from the temperature measured for
25 the external surrounds of the aircraft.